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<110> Lyamichev, Victor

Allawi, Hatim

Dong, Fang

Neri, Bruce

Vener, Tatiana

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 <211> 20
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic
 <400> 74
 gctcacgtga cagaccgccg 20
 <210> 75
 <211> 18
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic
 <400> 75
 tgacagaccg ccggggccc 18
 <210> 76
 <211> 121
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic

<400> 76
 cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60
 cccgctgtcg gggttgaccc acaagcgccg actgtcggcg ctggggcccg gcggtctgtc 120
 a 121
 <210> 77
 <211> 18
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic
 <400> 77
 agacagaccg ccggggccc 18
 <210> 78
 <211> 121
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic
 <400> 78
 cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60
 cccgctgtcg gggttgaccc acaagcgccg actgtcggcg ctggggcccg gcggtctgtc 120
 t 121
 <210> 79
 <211> 18
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic
 <400> 79
 acagaccgcc gggcccca 18

<210> 80
 <211> 119
 <212> DNA
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 <223> Synthetic
 <400> 80
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 cccgctgtcg gggttgaccc acaagcgccg actgtcggcg ctggggcccg gcggtctgt 119
 <210> 81
 <211> 18
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic
 <400> 81
 ccagaccgcc gggcccca 18
 <210> 82
 <211> 119
 <212> DNA
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 <400> 82
 cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60
 cccgctgtcg gggttgaccc acaagcgccg actgtcggcg ctggggcccg gcggtctgg 119
 <210> 83
 <211> 18
 <212> DNA
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 <223> Synthetic

<400> 83
 cagaccgccg ggccccag 18
 <210> 84
 <211> 118
 <212> DNA
 <213> Artificial Sequence
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 <223> Synthetic
 <400> 84
 cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60
 cccgctgtcg gggttgacct acaagcgccg actgtcggcg ctggggcccc gcggtctg 118
 <210> 85
 <211> 18
 <212> DNA
 <213> Artificial Sequence
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 <223> Synthetic
 <400> 85
 gagaccgccg ggccccag 18
 <210> 86
 <211> 118
 <212> DNA
 <213> Artificial Sequence
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 <223> Synthetic
 <400> 86
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 cccgctgtcg gggttgacct acaagcgccg actgtcggcg ctggggcccc gcggtctc 118
 <210> 87
 <211> 20
 <212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 87

ccgccggggcc ccagcgccga

20

<210> 88

<211> 114

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 88

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60

cccgtgtcg gggttgacct acaagcgccg actgtcggcg ctggggcccc gcgc

114

<210> 89

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 89

gcgccggggcc ccagcgccga

20

<210> 90

<211> 114

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 90

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cccgtgtcg gggttgacct acaagcgccg actgtcggcg ctggggcccc gcgc

114

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 <223> Synthetic
 <400> 93
 cgggccccag cgccgaca 18
 <210> 94
 <211> 110
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<400> 94
 cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60
 cccgctgtcg gggttgacct acaagcgccg actgtcggcg ctggggcccg 110
 <210> 95
 <211> 18
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic
 <400> 95
 agggccccag cgccgaca 18
 <210> 96
 <211> 110
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic
 <400> 96
 cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60
 cccgctgtcg gggttgacct acaagcgccg actgtcggcg ctggggccct 110
 <210> 97
 <211> 18
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic
 <400> 97
 cccagcgcc gacagtcg 18
 <210> 98
 <211> 106
 <212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 98
cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60
cccgtgtcg gggttgaccc acaagcgccg actgtcggcg ctgggg 106

<210> 99

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 99
tcccagcgcc gacagtcg 18

<210> 100

<211> 106

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 100
cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60
cccgtgtcg gggttgaccc acaagcgccg actgtcggcg ctggga 106

<210> 101

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 101
cgcttggtggg tcaacccga 20

<210> 102
 <211> 87
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic
 <400> 102
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 cccgctgtcg gggttgacct acaagcg 87
 <210> 103
 <211> 20
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic
 <400> 103
 agcttgtggg tcaaccccgga 20
 <210> 104
 <211> 87
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic
 <400> 104
 cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60
 cccgctgtcg gggttgacct acaagct 87
 <210> 105
 <211> 16
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic

<400> 105 gtgacagagt tgttct	16
<210> 106	
<211> 18	
<212> DNA	
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<223> Synthetic	
<400> 106 gtgacagatt gttgttct	18
<210> 107	
<211> 18	
<212> DNA	
<213> Artificial Sequence	
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<223> Synthetic	
<400> 107 gtgacagagc gttgttct	18
<210> 108	
<211> 18	
<212> DNA	
<213> Artificial Sequence	
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<400> 108 gtgacagaaa gttgttct	18
<210> 109	
<211> 18	
<212> DNA	
<213> Artificial Sequence	
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<223> Synthetic	
<220>	

<221> misc_feature
 <222> (9)..(10)
 <223> The residues at these positions are spacers with abasic sugar labels.
 <400> 109
 gtgacagann gttgttct 18
 <210> 110
 <211> 18
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic
 <400> 110
 tcacgtgagc gtccatga 18
 <210> 111
 <211> 18
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic
 <400> 111
 cagaccgcgc acagcggg 18
 <210> 112
 <211> 17
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic
 <400> 112
 gctcacgata ccccgac 17
 <210> 113
 <211> 18
 <212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 113
tgctcacgat accccgac

18

<210> 114

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 114
cgccggg'gcgc tcaacccc

18

<210> 115

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 115
acagtcgggc ggttggtc

18

<210> 116

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 116
cgggccccta tgtgggtc

18

<210>	117	
<211>	18	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Synthetic	
<400>	117	
	ctcacgtgta tctggtcc	18
<210>	118	
<211>	16	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Synthetic	
<400>	118	
	tgacagacgt tgttct	16
<210>	119	
<211>	18	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Synthetic	
<400>	119	
	ccccagcggc gttgttct	18
<210>	120	
<211>	16	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Synthetic	
<400>	120	
	gtgtcgtttg gaaccg	16

<210>	121	
<211>	16	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Synthetic	
<400>	121	
	tgggcggtgc ttgtgg	16
<210>	122	
<211>	18	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Synthetic	
<400>	122	
	ttgggcgttg cttgtggt	18
<210>	123	
<211>	13	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Synthetic	
<400>	123	
	tccttgatcg cgg	13
<210>	124	
<211>	16	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Synthetic	
<400>	124	
	cttaaggtag gactac	16

<210> 125
 <211> 16
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic
 <400> 125
 cattttccaa ccttaa 16
 <210> 126
 <211> 14
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic
 <400> 126
 taaggttagga ctac 14
 <210> 127
 <211> 16
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic
 <220>
 <221> misc_feature
 <222> (15)..(16)
 <223> The residue at this position can be any nucleotide.
 <400> 127
 taaggttagga ctacnn 16
 <210> 128
 <211> 18
 <212> DNA

<213> Artificial Sequence
 <220>
 <223> Synthetic
 <220>
 <221> misc_feature
 <222> (15)..(18)
 <223> The residue at this position can be any nucleotide.
 <400> 128
 taaggtagga ctacnnnn 18
 <210> 129
 <211> 20
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic
 <220>
 <221> misc_feature
 <222> (15)..(20)
 <223> The residue at this position can be any nucleotide.
 <400> 129
 taaggtagga ctacnnnnnn 20
 <210> 130
 <211> 22
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic
 <220>
 <221> misc_feature
 <222> (15)..(22)
 <223> The residue at this position can be any nucleotide.
 <400> 130
 taaggtagga ctacnnnnnn nn 22

<210> 131
 <211> 24
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic
 <220>
 <221> misc_feature
 <222> (15)..(24)
 <223> The residue at this position can be any nucleotide.
 <400> 131
 taaggttagga ctacnnnnnn nnnn 24
 <210> 132
 <211> 26
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic
 <220>
 <221> misc_feature
 <222> (15)..(26)
 <223> The residue at this position can be any nucleotide.
 <400> 132
 taaggttagga ctacnnnnnn nnnnnn 26
 <210> 133
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic
 <220>
 <221> misc_feature
 <222> (15)..(30)
 <223> The residue at this position can be any nucleotide.
 <400> 133
 taaggttagga ctacnnnnnn nnnnnnnnnn 30
 <210> 134
 <211> 14
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic
 <400> 134
 ttttccaacc ttaa 14
 <210> 135
 <211> 22
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic
 <220>
 <221> misc_feature
 <222> (15)..(22)
 <223> The residue at this position can be any nucleotide.
 <400> 135
 ttttccaacc ttaannnnnn nn 22

<210> 136
 <211> 26
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic
 <220>
 <221> misc_feature
 <222> (15)..(26)
 <223> The residue at this position can be any nucleotide.
 <400> 136
 ttttccaacc ttaannnnnn nnnnnn 26
 <210> 137
 <211> 14
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic
 <220>
 <221> misc_feature
 <222> (1)..(14)
 <223> The residues in these positions are 2'-O-methyl nucleotides.
 <400> 137
 gtagtcctac cttta 14
 <210> 138
 <211> 14
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic
 <220>
 <221> misc_feature

<222> (1)..(14)
 <223> The residues in these positions are 2'-O-methyl nucleotides.
 <400> 138
 ttaaggttgg aaaa 14
 <210> 139
 <211> 24
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic
 <220>
 <221> misc_feature
 <222> (15)..(24)
 <223> The residue at this position can be any nucleotide.
 <400> 139
 ttttccaacc ttaannnnnn nnnn 24
 <210> 140
 <211> 21
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic
 <220>
 <221> misc_feature
 <222> (1)..(1)
 <223> The residue at this 5' end has a tetrachlorofluorescein label.
 <400> 140
 ngcatcgttt tgggttctct t 21
 <210> 141
 <211> 987
 <212> RNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 141

cacauuguuc	ugaucaucug	aagaucagcu	auuagaagag	aaagaucagu	uaaguccuuu	60
ggaccugauc	agcuugauac	aagaacuacu	gauuucacu	ucuuuggcuu	aaucucucg	120
gaaacgauga	aaauacaag	uuauaucuug	gcuuucagc	ucugcaucgu	uuuggguucu	180
cuuggcuguu	acugccagga	cccaugua	caagaagcag	aaaaccuuaa	gaaauuuuu	240
aaugcagguc	auucagaugu	agcggauaau	ggaacucuuu	ucuuaggcau	uuugaagaau	300
uggaaagagg	agagugacag	aaaaauaau	cagagccaaa	uugucuccuu	uuacuucaaa	360
cuuuuuuuuu	acuuuuuaga	ugaccagagc	auccaaaaga	guguggagac	caucaaggaa	420
gacaugaau	ucaaguuuuu	caauagcaac	aaaaagaaac	gagaugacuu	cgaaaagcug	480
acuaauuuu	cgguaacuga	cuugaauguc	caacgcaaag	cauacauga	acucauccaa	540
gugauggcug	aacugucgcc	agcagcuaaa	acagggagc	gaaaaaggag	ucagaugcug	600
uuucgagguc	gaagagcauc	ccaguaaugg	uuguccugcc	uacaauuuu	gaauuuuuuu	660
ucuaaaucua	uuuauuaau	uuuaacauu	uuuauauggg	gaauauuuu	uuagacucau	720
caaucaaua	aguauuuau	auagcaacu	uuguguaaug	aaaugaaua	ucuaauuaa	780
uauguaauu	uuauauucc	uauauccugu	gacugucuca	cuuaauccuu	uguuuucuga	840
cuaauuaggc	aaggcuauu	gauuacaagg	cuuauucuca	ggggccaacu	aggcagccaa	900
ccuaagcaag	aucccauggg	uuguguguuu	auuucacuug	augauacaau	gaacacuuau	960
aagugaagug	auacuaacca	guuacua				987

<210> 142

<211> 47

<212> RNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 142

ggugggugug	ggcgccgucg	gugugggcaa	gagugcgucg	accaucc	47
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<210> 143

<211> 589

<212> RNA

<213> *Oryctolagus cuniculus*

<400> 143

acacuugcuu uugacacaac uguguuuacu ugcaaucccc caaaacagac agaugggugc	60
aucuguccag ugaggagaag ucugcgguca cugcccugug gggcaaggug aauguggaag	120
aaguuggugg ugaggccug ggcaggcugc ugguugucua cccauggacc cagagguucu	180
ucgaguccuu ugdddaccug uccucugcaa augcuguuau gaacaauccu aaggugaagg	240
cucauggcaa gaaggugcug gcugccuua gugagggucu gagucaccug gacaaccuca	300
aaggcaccuu ugcuaagcug agugaacugc acugugacaa gcugcacgug gaucugaga	360
acuucaggcu ccugggcaac gugcugguua uugugcuguc ucaucauuuu ggcaaagaau	420
ucacuccuca ggugcaggcu gccuaucaga aggugguggc ugguguggcc aaugcccugg	480
cucacaaaau ccacugagau cuuuuuuccu cugccaaaaa uuauggggac aucaugaagc	540
cccuugagca ucugacuucu ggcuaauaaa ggaaauuuau uuucauugc	589

<210> 144

<211> 2891

<212> DNA

<213> *Homo sapiens*

<400> 144

gcgccccagt cgacgctgag ctctctgct actcagagtt gcaacctcag cctcgctatg	60
gctcccagca gccccggcc cgcgctgcc gactcctgg tctgctcgg ggctctgttc	120
ccaggacctg gcaatgcca gacatctgtg tccccctcaa aagtcatect gccccgggga	180
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accccgttgc ctaaaaagga gttgctcctg cctgggaaca accggaagggt gtatgaactg	300
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acagctaaaa ccttctcac cgtgtactgg actccagaac ggggtggaact ggcaccctc	420
ccctcttggc agccagtggg caagaacctt accctacgct gccaggtgga ggggtgggca	480
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gccaatctct cgtgccgcac tgaactggac ctgcggcccc aagggtgga gctgtttgag	660
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acagtcacct atggcaacga ctcttctcg gccaaaggct cagtcagtgt gaccgcagag	900

gacgagggca	cccagcggct	gacgtgtgca	gtaatactgg	ggaaccagag	ccaggagaca	960
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gtctcagaag	ggaccgaggt	gacagtgaag	tgtgaggccc	accctagagc	caaggtgacg	1080
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actcaagggg	aggtcacccg	cgaggtgacc	gtgaatgtgc	tctccccccg	gtatgagatt	1500
gtcatcatca	ctgtggtagc	agccgcagtc	ataatgggca	ctgcaggcct	cagcacgtac	1560
ctctataacc	gccagcggaa	gatcaagaaa	tacagactac	aacaggccca	aaaagggacc	1620
cccatgaaac	cgaacacaca	agccacgcct	ccctgaacct	atcccgggac	agggcctctt	1680
cctcggcctt	cccatattgg	tggcagtggg	gccacactga	acagagtggg	agacatatgc	1740
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tacaacagca	tttggggcca	tggtacctgc	acacctaaaa	cactaggcca	cgcattctgat	1860
ctgtagtca	atgactaagc	caagaggaag	gagcaagact	caagacatga	ttgatggatg	1920
ttaaagtcta	gcctgatgag	aggggaagtg	gtgggggaga	catagcccca	ccatgaggac	1980
atacaactgg	gaaatactga	aacttgctgc	ctattgggta	tgctgaggcc	cacagactta	2040
cagaagaagt	ggccctccat	agacatgtgt	agcatcaaaa	cacaaaggcc	cacacttcct	2100
gacggatgcc	agcttgggca	ctgctgtcta	ctgaccccaa	cccttgatga	tatgtattta	2160
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 gguaaagcug gcuguccuga aaauuuauaa gguggaugag aauggcaaaa uuagucgccu 360
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 cauagugguc ugcggaaccg gugaguacac cggaauugcc aggacgaccg gguccuuucu 180
 uggauaaacc cgcuaaugc cuggagauuu gggcgugccc ccgcaagacu gcuagccgag 240
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 uggaucaacc cgcuaaugc cuggagauuu gggcgugccc ccgcgagacu gcuagccgag 240
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 ccggaacugu gggcucaucg cuggggcugu cauuggugcu guccuggcug uguuuggagg 180
 uauucuaaug ccaguuggag accugcuuau ccagaagaca auuaaaaagc aaguuguccu 240
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 gucaaaaucu ucuauguucc aagucagaac uuugagagaa cuguuauggg gcuauagggg 660
 uccaauuuug aguuggguuc cguaccugcu uacuacuaca guuggucugu uuuaucuuu 720
 caacaauacu gcagauggag uuuaaaagu uuucaaugga aaagauaaca uaaguaaagu 780
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 cacgaacugc caaaauaugg ugugaagguu ggccugacaa auuauugcugc agcauuuugu 300
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 ccugguuauug auucugaaag caaggaauuu aaugcagaag uacaucggaa gcacaucaug 600
 ggccagaauug uugcagauua caugcgcua uuaauggaag aagaugaaga ugcuuacaag 660
 aaacaguucu cucaauacau aaagaacagc guaacuccag acaugaugga ggagauguau 720

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guuaaaaaga agagguggaa ccgucccaaa augucccuug cucagaagaa ggauccgggua	840
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 <220>
 <223> Synthetic
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 gagagtggaccacac 15
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 gaatcagtgaagatgcc 17
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<223> Synthetic

<400> 309

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<210> 310

<211> 21

<212> DNA

<213> Artificial Sequence

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<223> Synthetic

<400> 310

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21

<210> 311

<211> 15

<212> DNA

<213> Artificial Sequence

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<223> Synthetic

<400> 311

ccctagtctg ctagc

15

<210> 312

<211> 21

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<223> Synthetic

<400> 312

ttcaagtgta acttattaac c

21

<210> 313
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 <223> Synthetic
 <400> 313
 aagctggccg tg 12
 <210> 314
 <211> 15
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 <223> Synthetic
 <400> 314
 tgcagttttg ccaag 15
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 <211> 1382
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 <213> Homo sapiens
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 cuuguucuuu gaagcugaug gcccuaaaca gaugaagugc uccuuccagg accuggaccu 120
 cugcccucug gauggcggca uccagcuacg aaucuccgac caccacuaca gcaagggcuu 180
 caggcaggcc gcgucaguug uuguggccau ggacaagcug aggaagaugc ugguucccug 240
 cccacagacc uuccaggaga augaccugag caccuucuuu cccuucaucu uugaagaaga 300
 accuauucuu uucgacacau gggauaacga ggcuuaugug cacgaugcac cuguacgauc 360
 acugaacugc acgcuccggg acucacagca aaaaagcuug gugaugucug guccauauga 420
 acugaaagcu cuccaccucc agggacagga uauggagcaa caaguggugu ucuccauguc 480
 cuuuguacaa ggagaagaaa guaaugacaa aaauaccugug gccuuggggc ucaaggaaaa 540
 gaaucuguac cuguccugcg uguugaaaga ugauaagccc acucuacagc uggagagugu 600
 agaucccaaa aaauacccaa agaagaagau ggaaaagcga uuugucuuca acaagauaga 660
 aaucaauaac aagcuggaau uugagucugc ccaguucucc aacugguaca ucagcaccuc 720

ucaagcagaa aacaugcccg ucuuccuggg agggaccaa ggcggccagg auauaacuga	780
cuucaccaug caauuugugu cuuccuaaag agagcuguac ccagagaguc cugugcugaa	840
uguggacuca aucccuaggg cuggcagaaa gggaacagaa agguuuuuga guacggcuau	900
agccuggacu uuccuguugu cuacaccaau gcccaacugc cugccuuagg guagugcuaa	960
gaggaucucc uguccaucag ccaggacagu cagcucucuc cuuucagggc caauccccag	1020
cccuuuuguu gagccaggcc ucucucaccu cuccuacuca cuuaaagccc gccugacaga	1080
aaccacggcc acauuugguu cuaagaaacc cucugucauu cgcucccaca uucugaugag	1140
caaccgcuuc ccuauuuauu uauuuauuug uuuguuuguu uuauucauug gucuaauua	1200
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aucaauucaa uuuggacugg ugugcucucu uaaaaucaag uccuuuaauu aagacugaaa	1320
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ca	1382
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cacattgttc tgatcatctg

20

<210> 319

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<400> 319

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<400> 320

tagtaactgg atagtatcac

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<210> 321

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gacattcaag tcagttaccg

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<210> 322

<211> 41

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41

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41

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20

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<211> 49

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 cattcagatg tagcg 15
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 gactcatcaa tcaaa 15
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<213> Artificial Sequence

<220>

<223> Synthetic

<400> 330

gattacaagg cttta

15

<210> 331

<211> 332

<212> RNA

<213> *Pneumocystis carinii*

<400> 331

gagggucaug aaagcggcgu gaaaacguua gcuagugauc uggaauaaau ucagauugcg 60

acacugucua auugcgggga agcccuaaag auucaacuac uaagcaguuu guggaaacac 120

agcuguggcc gaguuaauag cccugggauu aguaacaauug uugaauauga aucuuuugcg 180

agaugaaaug ggugaucgc agccaagucc uaagggcauu uuugucuaug gaugcaguuc 240

aacgacuaga uggcaguggg uauuguaagg aaugcaguu uucuugcagu gcuaaggua 300

uagucuaucc ucuuucgaaa gaaagaguau au 332

<210> 332

<211> 368

<212> RNA

<213> *Candida albicans*

<400> 332

gggaggcaaa aguagggacg ccaugguuuc cagaaauggg ccgcgguuu uuugaccugc 60

uagucgaucu ggccagacgu aucugugggu ggccagcggc gacauaaccu gguacgggga 120

aggccucgaa gcaguguuca ccuugggagu gcgcaagcac aaagagguga gugguguaug 180

ggguuaaucc cguggcgagc cgucagggcg cgaguucugg caguggccgu cguagagcac 240

ggaaagguau gggcuggcuc ucugagucgg cuuaagguac gugccguccc acacgaugaa 300

aagugugcgg ugcagaauag uucccacaga acgaagcugc gccggagaaa gcgauuucuu 360

ggagcaau 368

<210> 333

<211> 165

<212> RNA

<213> Earwig R2 element

<400> 333
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uaauaccguu guuuuuuuag uggguauucu uuuaacgcuu cguaggagcg agucccacac 120
ucuuggagca auccggggua gugccuaaac gcauuucuuc aacgu 165

<210> 334

<211> 244

<212> RNA

<213> Bombyx mori

<400> 334
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gcucgcuccc uuggcuccc uuauauauuu uaacaucaga aacagacauu aaacaucuac 120
ugauccaaau ucgccggcgu acggccacga ucgggagggg gggaaucucg ggggucuucc 180
gauccaauc caugaugauu acgaccugag ucacuaaaga cgaugggaug augauccggc 240
gaug 244